

Agenda of the 6th U.S Climate Modeling Summit Workshop

Theme: Global Model Cloud-Aerosol Research (GM-CAR)

April 2nd, 2020, 2:00 - 4:00 pm EDT:

- **Session 1:** Climate Feedbacks and Equilibrium Climate Sensitivity.
 - Mark Zelinka (LLNL): Causes of high climate sensitivity in CMIP6 models
 - Andrew Gettelman (NCAR) Processes governing forcings and feedbacks.
 - Stephen Klein (LLNL): Climate Feedbacks in the WCRP Assessment on Climate Sensitivity

Discussion moderator: Gavin Schmidt

April 9, 2020, 2:00 - 4:00 pm EDT:

- **Session 2:** Emerging constraints for aerosol-cloud interactions and cloud feedbacks
 - Johannes Mülmenstädt (PNNL) Can observations constrain parameterized processes?
 - Susannah Burrows (PNNL): Modelling and evaluating marine contributions to CCN and INP over the Southern Ocean
 - Ivy Tan (UMBC/GSFC): TBD

Discussion moderator: Ann Fridlind

April 16, 2020, 2:00 - 4:00 pm EDT:

- **Session 3: Part 1 Aerosol – Cloud Interactions in State of the Art Climate Models**
 - Greg Elsaesser (GISS): Differences and commonalities among tunings used in US models.
 - *Yi Ming (GFDL): GFDL's perspectives on a holistic approach toward modeling and understanding aerosol-cloud interactions
 - Po-Lun Ma (PNNL): Better cloud calibration leads to improved realism in global atmospheric simulation

*Discussion moderator: J-F Lamarque

April 23, 2020, 2:00 - 4:00 pm EDT:

- **Session 4: Part 2 Aerosol – Cloud Interactions in State of the Art Climate Models**





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- Hailong Wang(PNNL): New aerosol treatments in E3SM and their impact on clouds
- Andy Ackerman (GISS): Diversity of aerosol and cloud forcings in modelE3
- Donifan Barahona (GMAO): Seasonal Predictions
- Final Discussion/Planning for future papers/research

Discussion moderator: Susanne Bauer and Gavin Schmidt

